

ABSTRACT OF THE DISCLOSURE

It is an object to provide a method of manufacturing a porous medium having a grading porous structure, and there are provided a method of manufacturing a porous medium having a grading porous structure, comprising the steps of installing a sample consisting of a powder compact or a porous body in a rotating body, and heating the sample while applying a centrifugal force to the sample through high-speed rotation of the rotating body to produce a porous medium having a grading porous structure in which the pore size and the porosity change gradually by using the pressure grading in the sample arising through the centrifugal force, and such a method wherein the pore size and the porosity of the sample are predicted based on a linear shrinkage factor calculated through the equation:

$$\text{linear shrinkage factor} = \Delta l / l_0 \quad (1)$$

Δl : change in length upon shrinkage

l_0 : original length.

and a porous medium having a grading porous structure manufactured using the above method.